From:	Benjamin Shorr
To:	Carrie Smith
Cc:	Robert Gensemer; Eric Blischke/R10/USEPA/US@EPA; Jay.Field@noaa.gov; Robert.Neely@noaa.gov; Ron.Gouguet@noaa.gov; Brad Hermanson; Jim Koloszar; Margaret Spence
Subject:	Re: Rd. 2 Data Review- initial spatial analyses
Date:	12/21/2006 11:28 AM

Carrie- I added a couple of files- including LRM & FPM figure... otherwise they are the same-

Thanks,

ben

Carrie Smith wrote:

> Ben -
>
> Other than the fpm/lrm figures, has anything changed from yesterday? That is, I downloaded the files that were there last night - do I need to re-download again?
>
> Carrie
>
> >>> Benjamin Shorr <Benjamin.Shorr@noaa.gov> 12/21 9:09 AM >>>
> Bob-
>
> The files currently on the NOAA ftp site (draft) are:
>
> **pah_sereis1_RiverMiles.pdf; pah_series2_FandT.pdf; pah_series3_AOPC.pdf** = 3 series maps showing PAH's summarized by River Miles, AOPC's, and Fate and Transport Segments.
> **ph_base_121806.pdf** = 1 map of the River Miles with an explanation of areas.
> **fpm_series1.pdf & lrm_series1.pdf** = 2 map series with Logistic Regression & Floating Percentile (separate- probably more effective to map them together)
> **rm_surfsed_cat1risk_pah.xls =** Excel Table & Graphs: Total PAHs graphed by River Mile and side, Total
> **clam_totalpah_Identity2.xls** = PAHs in clams (these in particular are not perfect)
> **Multichem_statssummary_20061219.doc** = Word Doc: Screenshots of selected analytes in surface sediment Histograms & QQPlots
> **surfsed_cat1risk_pah_autodoc.txt** = Metadata: Query Manager auto-documentation (example)
>
> I just added the LRM & FPM figures- all draft of course.
>
> Also, I posted some examples for discussion on our ftp site:
>
> I've posted some examples of mapping and Excel graphs (with data tables)
> for discussion. There may be errors- I've been using these as a test to
> explore the data and the processes.

nonresponsive

Robert Gensemer wrote:

Thanks, all, for the replies. Ben, Carrie, Jim, and Margaret are all
available tomorrow afternoon, so lets go for 2pm for a planning call to
go over Ben's observations/questions, and get organized and going on
analyses.

Lets us my callin number: Non-Responsive .

Ben: In advance, could you send around a quick list of files we should
have in front us on computer screens if we need to refer to them?
Thanks.
-Bob

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Benjamin Shorr
<Benjamin.Shorr@noaa.gov>
12/20/06 11:02 AM >>>

Bob & Eric et al-

I've been going through the contaminant and spatial data and coming up
with a methodology/process for querying and summarizing spatially to
meet the needs of inputs to HH, ER, BSAF and the other analyses, and
mapping/graphing. I've created some base GIS layers that we can uses to

summarize/assign location to contaminant data (River Miles & Fate and
Transport segments) and have come up with a couple of observations/questions:

1. The reference value table should probably be in the same units as
the database (Query Manager) with a clear indication of what guideline
or value was chosen based on the priority preference. This will help
with identifying the sources in tables/graphs/figures. Additionally,
the Chem names should be translated into the Chemcodes in Query Manager-

this should help with ensuring consistency between sed/tissue/bioassay &

water data & using a look-up table.

2. Statistics: For summarized data- fate and transport segments, River
Miles, nearshore receptor habitat etc. I have explored a bit how best
to calculate 95% UCL's and perhaps UPLs (using surface

sediment as a
test case) for 8 metals, Total PAH, PCBs, DDT, Dieldrin. Generally,
these contaminants are distributed log-normally (entire site). We
should discuss the best and most appropriate way to incorporate/present
UCLs/UPLs. Generation of the following statistics for the sub-areas
summation is a standard part of the methodology: Min, Max, Count, Mean,
SD and Variance.
I've also found that generating a master contaminant data query from
Query Manager has some limitations in the GIS because of the -999 entry
for non-tested analytes at a station. This just means that folks doing
mapping & analysis need to coordinate on what queries should be used for

what pieces.

3. Non-detects or below detection limit: It's important to understand
how Query Manager queries handle these selections- and how the inputs
for the different analyses should be created. We should discuss this.

4. Inclusion/Exclusion of areas like GASCO, T4, McCormick & Baxters:
how should data that is in these areas be handled for this data review?

Temporally, what data should be used for analysis and presentation for
this Rd. 2 Data Review?

I've posted some examples of mapping and Excel graphs (with data tables)

for discussion. There may be errors- I've been using these as a test to

explore the data and the process.

nonresponsive

Maps: 3 series maps showing PAH's summarized by River Miles, AOPC's, and

Fate and Transport Segments. 1 map of the River Miles with an
explanation of areas.
Excel Table & Graphs: Total PAHs graphed by River Mile and side, Total
PAHs in clams (these in particular are not perfect)
Word Doc: Screenshots of selected analytes in surface sediment
Histograms & QQPlots
Metadata: Query Manager auto-documentation

I'm sure there is more, but these are initial observations after running

through the data a bit, hopefully we can discuss and begin moving
forward systematically.

Thanks,

Ben

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